

Amendments to the Specification

Abstract

A1
~~A circuit, apparatus and method for providing a cross-coupled load with built-in current mirrors are provided in embodiments of the present invention. In an embodiment of the present invention, a~~ A circuit ~~comprises~~ includes a first node ~~for providing~~ having a first variable voltage and a second node ~~for providing~~ having a second variable voltage. ~~In an embodiment of the present invention, a~~ A clock signal generates the first variable and second variable voltages. A first transistor is coupled to the first node and provides a first current responsive to a first control voltage being applied to the first transistor gate. A second transistor is coupled to the second node and provides a second current responsive to a second control voltage being applied to the second transistor gate. ~~The first and second transistors operate in a saturation region.~~ A first control circuit is coupled to the first transistor gate and the second node. The first control circuit provides the first control voltage responsive to the first variable voltage. A second control circuit is coupled to the second transistor gate and the first node. The second control circuit provides the second control voltage responsive to the second variable voltage. ~~In an embodiment of the present invention, the~~ The first and second currents are used to provide a duty cycle correction signal.